



Firmware Version: V2.40.046
Prom Code Version: V1.10.009
Published: 2015/06/01

These release notes include important information about D-Link DXS-3600 Series firmware revisions. Please verify that these release notes are correct for your switch:

- If you are installing a new switch, please check the hardware version on the device label; make sure that your switch meets the system requirement of this firmware version. Please refer to [Revision History and System Requirement](#) for detailed firmware and hardware matrix.
- If the switch is powered on, you can check the hardware version by typing "show system" command or by checking the device information page on the web graphic user interface.
- If you plan to upgrade to the new firmware release, please refer to the [Upgrade Instructions](#):

D-Link switches support firmware upgrade via TFTP server. You can download the firmware from D-Link web site <http://tsd.dlink.com.tw>, and copy the downloaded firmware to the TFTP server folder. Please make sure that the TFTP server is accessible from the switch via networks.

For more detailed information regarding DXS-3600 Series switch products, please refer to [Related Documentation](#).

You can also download the switch firmware, D-View modules and technical documentation from <http://tsd.dlink.com.tw>.

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Revision History and System Requirement

Firmware Version	Date	Model	Hardware Version
Runtime: v2.40.046 PROM: v1.10.009	2015/6/1	DXS-3600-16S DXS-3600-32S	B1
Runtime: v2.00.023 PROM: v1.10.009	2013/9/30	DXS-3600-16S DXS-3600-32S	B1
Runtime: v1.10.023 PROM: v1.10.007	2012/8/31	DXS-3600-16S DXS-3600-32S	B1
Runtime: v1.00.024 PROM: v1.00.007	2011/12/26	DXS-3600-32S	A1

Firmware Version	Supported module		
Runtime: v1.10.023 and later Prom: v1.10.007 and later	DXS-3600-EM-8T DXS-3600-EM-4XT DXS-3600-EM-8XS	DXS-3600-EM-4QXS DXS-3600-PWR-FB DXS-3600-PWR-BF	DXS-3600-FAN-FB DXS-3600-FAN-BF
Runtime: v1.00.024 Prom: v1.00.007	DXS-3600-PWR-FB DXS-3600-FAN-BF	DXS-3600-FAN-FB	DXS-3600-PWR-BF

Upgrade Instructions:

Note1: User has to upgrade the software version to R2.31beta FIRST before upgrading the switch to R2.40.046. We recommend using the CLI instructions FIRST for firmware upgrade as the WEB UI will not support Boot Up Image selection until it is upgraded to R2.40.046 and later.

Note2: EI & SI features are all included in the firmware. While upgrading, system will automatically distinguish it and enable the associated features only.

Note3: v1.10.023 and later versions only work for B1 hardware version and NOT backward compatible to A1 hardware version. The v1.00.024 only works for A1

D-Link switches support firmware upgrade via TFTP server. You can download the firmware from D-Link web site <http://tsd.dlink.com.tw>, and copy the downloaded firmware to the TFTP server folder. Please make sure that the TFTP server is accessible from the switch via networks.

Upgrade using CLI (serial port)

Connect a workstation to the switch console port and run any terminal program that can emulate a VT-100 terminal. The switch serial port default settings are as follows:

- ◆ Baud rate: **115200**
- ◆ Data bits: **8**
- ◆ Parity: **None**
- ◆ Stop bits: **1**

The switch will prompt the user to enter his/her username and password. It should be noted that upon the initial connection, there is no username and password by default.

To upgrade the switch firmware, execute the following commands:

Command	Function
copy tftp://location/filename flash: filename	Download firmware file from the TFTP server to the switch.
boot image flash filename	Change the boot up image file.
show boot	Display the information of current boot image and configuration.
reboot	Reboot the switch.

Example:

```
DXS-3600-32S#copy tftp: //192.168.0.27/firmware.had flash: run.had
```

```
Address of remote host [192.168.0.27]
Source filename [firmware.had]
Destination filename [run.had]
Accessing tftp://192.168.0.27/ firmware.had...
Transmission start...
Transmission finished, file length 5156864 bytes.
Please wait, programming flash... Done
```

```
DXS-3600-32S#
DXS-3600-32S#configure terminal
DXS-3600-32S(config)#boot image firmware.had
```

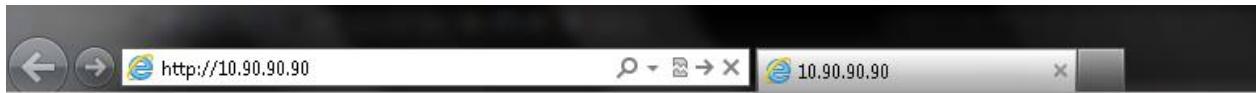
```
DXS-3600-32S#sh boot
```

```
Unit 1
Boot image : /c:/2.40.046.had
Boot config : /c:/config.cfg
```

```
DXS-3600-32S#reboot
Are you sure you want to proceed with the system reboot? (y|n) y
Please wait, the switch is rebooting...
```

Upgrading by using Web-UI

1. Connect a workstation installed with java SE runtime environment to any front panel ports of the device and also connect console cable to switch's console port.
2. Enter switch's default IP address, 10.90.90.90 with subnet mask 255.0.0.0 into the address bar of the browser and press the Enter key.



3. A user authentication window will be opened, by default, there is no user name and password configured on the switch. Just leave the **User Name** and **Password** fields blank and click the Login button.

4. Firmware upgrade from TFTP: click **Tools > Firmware Upgrade & Backup > Firmware Upgrade from TFTP**

Enter the TFTP Server's IP address and the source and destination file name in associated fields and then click **Upgrade** button.

5. Firmware upgrade from HTTP: click **Tools > Firmware Upgrade & Backup > Firmware Upgrade from HTTP**

Select the switch's unit and then click **Browse** button to find the file name, specifying the destination file name. Click **Upgrade** to start the process.

6. Select the boot up image: click **Management > File System** to open the **File System** window

File System

Unit:

Path:

Drive	Media Type	Size (MB)	File System Type	Label
C:	Flash	1023	FFS	

Click [c:](#) hyperlink, the following window will appear.

File System

Unit:

Path:

Index	Info	Attr	Size (byte)	Update Time	Name	
1	RUN	-rw	12441060	Jan 16 2000 18:16:26	Run-2.40.040.had	<input type="button" value="Boot Up"/> <input type="button" value="Rename"/> <input type="button" value="Delete"/>
2	RUN	-rw	12448904	Jan 21 2000 02:42:16	Run-2.40.041.had	<input type="button" value="Boot Up"/> <input type="button" value="Rename"/> <input type="button" value="Delete"/>
3	RUN(*)	-rw	12448228	Jan 22 2000 18:54:52	Run-2.40.042.had	<input type="button" value="Boot Up"/> <input type="button" value="Rename"/> <input type="button" value="Delete"/>
4	CFG(*)	-rw	33210	Apr 02 2015 17:10:19	config.cfg	<input type="button" value="Boot Up"/> <input type="button" value="Rename"/> <input type="button" value="Delete"/>
5		d--	0	Apr 08 2015 12:36:50	system	<input type="button" value="Rename"/> <input type="button" value="Delete"/>

1073217536 bytes total (1034104832 bytes free)
 (*) -with boot up info

Click **Boot Up** button to set a specific runtime image as the boot up image.

7. Reboot the system: click **Tool > Reboot System**, as shown below; click **Reboot** to reboot the switch. When rebooting the switch, any configuration changes that was made during this session, will be lost unless the **Yes** option is selected when asked to save the settings

Reboot System

Reboot System

Do you want to save the settings ? Yes No

If you do not save the settings, all changes made in this session will be lost.

New Features

Firmware Version	New Features
V2.40.046	<ol style="list-style-type: none"> 1 All software features in R2.00.023 version can be supported by R2.40.046's Web GUI, MIB files and D-View module. 2 The following new features are supported in CLI only <ul style="list-style-type: none"> ● IS-IS routing protocol for both IPv4 and IPv6 ● IPv4 PIM Snooping ● Multicast Source Discovery Protocol (MSDP) ● PIM6-SSM ● Per VLAN based IP Multicast Boundary on IPv4 ● G.8032v2 (ERPSv2) ● VLAN Counter ● IPv6 Stateless Address Autoconfiguration (SLAAC) ● BFD (Bidirectional Forwarding Detection) ● Selective Q-in-Q is able to work with MPLS ● MPLS PHP is able to support implicit-null when running as LER/LSR ● The management port is able to support AAA with TACACS+ and RADIUS server ● Support RADIUS attribute 4, the NAS-IP-Address attribute ● Scheduling Reboot ● Be able to clear Telnet/ SSH session ● IP DHCP Relay's destination supports specifying a Virtual Routing and Forwarding (VRF) space 3 The following features' specification has been changed. <ul style="list-style-type: none"> ● The LACP group number enlarges to 32 groups. ● The DHCP Relay group number enlarges to 30 groups.
V2.00.023	<ol style="list-style-type: none"> 1 Support Physical Stacking <ul style="list-style-type: none"> ● DXS-3600-32S with DXS-3600-EM-Stack stacking module and DEM-CB50CXP, the 120G CXP Direct Attach Cable, can support 480G stacking bandwidth ● DXS-3600-16S/32S with DXS-3600-EM-4QXS, the 40G expansion module and DEM-CB100QXS/300QXS, the 40G QSFP+ Direct Attach Cable, can support 160G stacking bandwidth 2 Support Virtual Stacking 3 The Layer 2 function supports following new features: <ul style="list-style-type: none"> ● Loopback Detection (LBD) ● L2 Protocol Tunneling ● Ethernet Ring Protection Switching (ERPS) ● Limited IP Multicast (IGMP Snooping Filter)

- Proxy Reporting
 - MLD Snooping
 - Multicast VLAN
- 4 The VLAN function supports following new features
- Private VLAN
 - Super VLAN
 - VLAN Translation
- 5 Support Explicit Congestion Notification (ECN)
- 6 The ACL function supports following new features
- ACL Statistics
 - CPU Interface Filtering
- 7 The Security function supports following new features
- IPv6 SSH
 - SSL v1/v2/v3
 - IPv4/v6 SSL access
 - D-Link Safeguard Engine
 - BPDU Attack Protection
 - ARP Spoofing Prevention
 - DHCP Snooping
 - DHCPv6 Guard
 - Route Advertisement (RA) Guard
 - IPv6 Snooping which contains following features
 - DHCPv6 Snooping
 - IPv6 ND Snooping
 - IPv6 Source Guard
 - IPv6 Neighbor Discovery (ND) Inspection
 - DHCP Server Screening
- 8 The AAA function supports following new features
- Web-based Access Control (WAC)
 - MAC-based Access Control (MAC)
 - Microsoft® Network Access Protection (NAP)
 - Compound Authentication
 - Authentication Database Failover
- 9 The L3 function supports following new features
- Gratuitous ARP
 - ARP Proxy
 - Loopback Interface
 - Null Interface
 - RIPng
 - OSPFv3

- RIPng and OSPFv3 are able to configure the Route Preference parameter
 - Static Route supports IPv6 address
 - Default Route supports IPv6 secondary route and Route Redistribution
 - Route Redistribution supports IPv6 static route, RIPng and OSPFv3
 - IPv6 Tunneling
- 10 The Green function supports following new features
- Green v1.0 supports power saving by link status and cable length
 - Green v3.0 supports power saving by shutting down port or main chipsets
 - Energy Efficient Ethernet (EEE)
- 11 The Management function supports following new features
- Web UI supports IPv6 address
 - IPv6 Telnet Server and Telnet Client
 - IPv6 TFTP and FTP client
 - Secure FTP (SFTP) server
 - Remote Copy Protocol (RCP)
 - SNMP over IPv6
 - Inconsistency airflow notification
 - IPv6 log server
 - Simple Mail Transfer Protocol (SMTP)
 - RMONv1 & RMONv2 support getting information through SNMPv6
 - sFlow
 - IPv4 BootP client
 - DHCP client supports DHCPv6 client and option 12
 - DHCP Auto Configuration
 - IPv6 Stateless Address Autoconfiguration (SLAAC)
 - IPv6 DHCP Server
 - DHCP Server supports option 60, 61, 82
 - DHCPv6 Relay Agent
 - Trusted Host
 - IPv6 Path MTU Discovery
 - IPv6 Ping and Traceroute
 - Microsoft® Network Load Balancing (NLB)
 - DNS Relay supports IPv6 and AAAA record
 - IPv6 Neighbor Discovery Protocol
 - When errors are detected in Management Port, switch is able to send traps or keep logs
- 12 The OAM function supports following new features
- Cable Diagnostic
 - 802.3ah Ethernet Link OAM
 - Connectivity Fault Management (CFM)

	<ul style="list-style-type: none"> ● Y.1731 ● Optical Transceiver Digital Diagnostic Monitoring (DDM) <p>13 The L3 Multicasting function supports following new features</p> <ul style="list-style-type: none"> ● IGMP Source Specific Mapping (SSM) ● IGMP/MLD Proxy ● IPv6 PIM-Sparse Mode (SM) ● PIM-Source Specific Multicast (PIM-SSM) ● Multicast Listener Discovery (MLD) v1/v2 <p>14 Support IPv6 Core Ready logo phase II certification</p> <p>15 Support IP-MAC-Port Binding which is composed by following functions:</p> <ul style="list-style-type: none"> ● ARP Inspection ● IP Source Guard ● DHCP Snooping ● DHCPv6 Guard ● Route Advertisement (RA) Guard ● IPv6 Snooping ● IPv6 Source Guard ● IPv6 Neighbor Discovery (ND) Inspection
<p>V1.10.023</p>	<p>1 Support DXS-3600-16S/32S B1 hardware version</p> <p>2 Support Data Center Bridging (DCB) features which include</p> <ul style="list-style-type: none"> ● 802.1Qaz Enhanced Transmission Selection (ETS) ● 802.1Qbb Priority-based Flow Control (PFC) ● 802.1Qau Congestion Notification (QCN) <p>3 Support below MPLS features</p> <ul style="list-style-type: none"> ● MPLS Label-Forwarding ● MPLS QoS ● MPLS Ping & Trace Route ● LDP ● MPLS LSP Trigger Filter ● VPWS ● VPLS ● L2 Protocol Tunneling Through PW(pseudowire) ● Pseudowire redundancy <p>4 Support below L3 VPN features</p> <ul style="list-style-type: none"> ● MPLS/BGP L3 VPN ● VRF-Lite ● MP-BGP <p>5 Support VRF Aware Application which includes</p> <ul style="list-style-type: none"> ● Socket API

	<ul style="list-style-type: none"> ● Telnet ● DHCP Server/Relay ● Ping ● Trace route ● FTP, TFTP ● SNMP ● Syslog ● AAA ● TACAS+ ● RADIUS Servers
V1.00.024	First release, please refer to datasheet and manual for detail function support

Changes of MIB & D-View Module

The new features of MIB file are also included in the corresponding D-View module. Please download the D-View module on <http://tsd.dlink.com.tw>. For detailed changes of MIB content, please refer to the modification history in each MIB file.

Firmware Version	MIB File	New Features
V2.40.046	DLINKSW-DHCP6-SERVER-MIB	Modify SYNTAX to "DisplayString" for following object types: <ul style="list-style-type: none"> - dDhcp6SPoolAddrAssignClientDuid - dDhcp6SPoolPdClientDuid
	DLINKSW-ROUTE-MAP-MIB	Add new following new objects <ul style="list-style-type: none"> - setIpv6RecursiveNextHop - setIpv6Precedence
	DLINKSW-OSPFV2-MIB	Add new "isis(5)" value for object dOspfV2RedistProtocol
	DLINKSW-OSPFV3-MIB	Add new "isis(5)" value for object dOspfV3RedistProtocol
	DLINKSW-BGP-MIB	Add new "isis(11)" value for object dBgpRedistProtocol
	DLINKSW-IP-ROUTING-MIB	Add new "isis(8)" and "slaac(9)" value for object dIpRoutingRouteSummarySrcType
	DLINKSW-RIP-MIB	Add new "isis(5)" value for object dRipRedistProtocol
	DLINKSW-RIPNG-MIB	Add new "isis(5)" value for object dRipngRedistProtocol
	DLINKSW-QOS-MIB	Add ETS, the new QoS scheduling mode, in dQoS SchedulingModeTable
V2.00.023	None	
V1.10.023	MPLS MIB	New MIB to support MPLS features
	L3 VPN MIB	New MIB to support L3 VPN features

	LLDP DCBX MIB	New MIB to support Data Center Bridging Exchange Protocol (DCBX)
	IP MIB	
	LED-DXS-3600-16S	
	General-mgmt	Add new table "swGenExpansionModuleMgmtTable" to General-mgmt MIB to support expansion modules
V1.00.024	First release, please refer to datasheet for detail MIB support	

Changes of Command Line Interface

The section below only shows command line changes that may bring backward compatibility issues with configuration settings for previous version of firmware. Any new feature commands that do not have backward compatibility issues are not included in the below section.

Note: When upgrading the firmware from version R1.10 to R2.00; if configuration file is saved in the flash first and then processes the upgrade procedure, the switch will automatically convert the CLI commands to new format.

Firmware Version	Changes
V2.40.046	None
V2.00.023	<ol style="list-style-type: none"> AAA (Authentication, Authorization and Accounting) commands <ul style="list-style-type: none"> aaa changes to aaa new-model aaa authentication network default method1 [method2...] changes to aaa authentication dot1x default METHOD1 [METHOD2...] aaa authorization exec {default list-name} method1 [method2...] is replaced by aaa authentication login {default list-name} method1 [method2...] aaa authorization console is removed as when user passes the authentication, the console will accept the predefined authorization level which is configured in AAA server authorization exec {default list-name} is replaced by authentication login {default list-name} aaa local authentication attempts max-attempts is removed; the switch will accept 3 times attempt by default aaa local authentication lockout-time lockout-time is removed; the switch's lockout time is 60 seconds by default aaa authorization network default method1 [method2...]

is replaced by

aaa authentication [dot1x|mac-auth|jwac|web-auth] default method1 [method2 ...]

- show aaa server group

is replaced by

show running-configure, for example *show running-config all | begin AAA*

- show aaa authentication {login | enable | network}

is replaced by

show running-configure, for example *show running-config all | begin AAA*

- show aaa authorization {exec | network}

is removed as authentication and authorization functions are not separated, hosts will be authorized automatically after successfully authenticated

- show aaa accounting {exec | network}

is replaced by

show running-configure, for example *show running-config all | begin AAA*

- show aaa application [{line | http | network}]

is replaced by

show running-configure, for example *show running-config all | begin AAA*

- following commands

- radius-server key text-string
- tacacs-server key string
- radius-server retransmit retries
- radius-server timeout seconds
- tacacs-server timeout seconds

are replaced by

radius-server host

- show radius-server configuration

is replaced by

show running-configure, for example *show running-config all | begin AAA*

- show tacacs-server configuration

is replaced by

show running-configure, for example *show running-config all | begin AAA*

2. Network Access Authentication commands

- **network-access** guest-vlan VLAN-ID

changes to

authentication guest-vlan VLAN-ID

- **network-access** authentication-mode {port-based | host-based}

changes to

authentication host-mode {multi-host | multi-auth [vlan VLAN-ID [,|-]] }

- dot1x timeout quiet-period <sec 0-65535>

changes to

authentication timer restart <SECONDS 1-65535>

- dot1x timeout reauth-period <sec 1-65535>
changes to
authentication timer reauthentication <SECONDS 1-65535>
 - dot1x reauthentication
changes to
authentication periodic
 - dot1x system-max-user <int 1-4096>
changes to
authentication max users <NUMBER 1-4096>
 - dot1x port-max-user <int 1-4096>
changes to
authentication max users <NUMBER 1-4096>
 - show network-access guest-vlan
is replaced by
show running-configure, for example
Switch#show running-config all | begin COMP
COMPOUND_AUTHENTICATION

configure terminal
interface ethernet 2/0/1
authentication guest-vlan 1
end
 - show network-access auth-configure [interface <interface-id>]
is replaced by
show running-configure, for example *show running-configure all | begin COMP*
3. DoS Prevention commands
- **defense** [land | blat | **null-scan** | **xmascan** | **tcp-synfin** | **port-less-1024** | ping-death | **tiny-frag**] enable
changes to
dos-prevention [**all** | land | blat | **tcp-null-scan** | **tcp-xmas-scan** | **tcp-synfin** | **tcp-syn-srcport-less-1024** | ping-death | **tcp-tiny-frag**]
 - show **defense**
changes to
show **dos-prevention** [**all** | land | blat | **tcp-null-scan** | **tcp-xmas-scan** | **tcp-synfin** | **tcp-syn-srcport-less-1024** | ping-death | **tcp-tiny-frag**]
4. Port Security commands
- switchport port-security [{mac-address <mac-address> [vlan <vlan-id>] | mac-address **sticky** [<mac-address> [vlan <vlan-id>]]}]
changes to
switchport port-security [mac-address [**permanent**]<mac-address> [vlan VLAN-ID]]
 - clear port-security {all | **configured** | **dynamic** | **sticky**} [{address <mac-

address> | interface <interface-id>}]

changes to

clear port-security {all | {address <mac-address> | interface [<interface-id> | <interface-list>]} [vlan VLAN-ID] }

5. DHCP Relay commands

- ip dhcp relay information [option82](#)

changes to

ip dhcp relay information [option](#)

- following commands are replaced by "class", "option hex" and "pool" parameters

- ip dhcp relay option60
- ip dhcp relay option60 identifier desc 255 relay ip-address [exact-match | partial-match]
- ip dhcp relay option60 default relay ip-address
- show ip dhcp relay option60 [identifier desc 255 | default]
- ip dhcp relay option61
- ip dhcp relay option61 identifier {string desc 255 | mac-address macaddr} {relay ip-address | drop}
- ip dhcp relay option61 default relay ip-address
- show ip dhcp relay option61

6. Traffic Segmentation commands

- switchport protected unidirectional { tenGigabitEthernet PORTLIST | gigabitEthernet PORTLIST | fortygigabitethernet PORTLIST }

changes to

traffic-segmentation forward interface { range Ethernet PORTLIST | Ethernet PORT }

7. BPDU Protection commands

- spanning-tree bpdprotect { enable | disable }

changes to

spanning-tree bpd-protection { drop | block | shutdown }

8. 802.1X commands

- dot1x [reauthentication](#)

changes to

dot1x [re-authentication](#)

- dot1x re-authenticate { interface <interface-id> | mac-address <mac-address> } in [Global Configuration Mode](#)

changes to

dot1x re-authenticate [interface INTERFACE-ID [mac-address MAC-ADDRESS]] in [Privileged EXEC Mode](#)

- dot1x initialize { interface <interface-id> | mac-address <mac-address> } in [Global Configuration Mode](#)

changes to

dot1x initialize [interface INTERFACE-ID [mac-address MAC-ADDRESS]] in [Privileged EXEC Mode](#)

- dot1x system-max-user <int 1-4096>
changes to
authentication max users <NUMBER 1-4096>
 - dot1x port-max-user <int 1-4096>
is replaced by
authentication max users <NUMBER 1-4096>
 - remove `dot1x system-fwd-pdu` command, this version does not support configuring global system forwarding PDU capability, only supports per interface configuration, for example `(config-if)#dot1x forward-pdu`
9. SSH commands
- `ip ssh port <int 1-65535 >`
changes to
`ip ssh service-port TCP-PORT`
10. Storm Control commands
- `storm-control {broadcast | multicast | unicast} {pps pps-rise [pps-low] | level level-rise [level-low]}`
changes to
`storm-control { {broadcast | multicast | unicast} level { pps PPS-RISE [PPS-LOW] | kbps KBPS-RISE [KBPS-LOW] | LEVEL-RISE [LEVEL-LOW] }}`
 - `storm-control action { block | shutdown | drop }`
changes to
`storm-control action { shutdown | drop | none }`
11. FDB commands
- `clear mac-address-table filtering [address MAC-ADDR | vlan VLAN-ID]` and `clear mac-address-table static [address MAC-ADDR | interface INTERFACE-ID | vlan VLAN-ID]` commands
change to
`no mac-address-table static {all | MAC-ADDR vlan VLAN-ID [interface INTERFACE-ID] [, | -] }`; the static parameter will include both original static and filtering parameters
 - `mac-address-table filtering MAC-ADD vlan VLAN-ID`
changes to
`mac-address-table static MAC-ADDR vlan VLAN-ID {interface INTERFACE-ID [, | -] | drop}`
 - `no mac-address-table filtering MAC-ADD vlan VLAN-ID`
changes to
`no mac-address-table static {all | MAC-ADDR vlan VLAN-ID [interface INTERFACE-ID] [, | -] }`
 - `mac-address-table notification [interval SECONDS | history-size VALUE]`
changes to
`mac-address-table notification change [interval SECONDS | history-size VALUE]`
 - `snmp trap mac-notification {added | removed}`
changes to

snmp trap mac-notification [change](#) {added | removed}

- show mac-address-table notification [interface *INTERFACE-ID* | history] changes to
show mac-address-table notification [change](#) [interface [*INTERFACE-ID*] | history]
- show mac-address-table count command is replaced by other show mac-address-table commands
 - show mac-address-table
 - show mac-address-table dynamic
 - show mac-address-table static
- show mac-address-table [filtering](#) [address *MAC-ADDR* | vlan *VLAN-ID*] changes to
show mac-address-table [[dynamic](#) | [static](#)] [address *MAC-ADDR* | interface [*INTERFACE-ID*] vlan *vlan-id*], the filtering parameter is replaced by static

12. LLDP commands

- lldp [message-tx-hold-multiplier](#) value changes to
lldp [hold-multiplier](#) VALUE
- lldp [reinit-delay](#) seconds changes to
lldp [reinit](#) SECONDS
- lldp [message-tx-interval](#) seconds changes to
lldp [tx-interval](#) SECONDS
- lldp-med [fast-start-repeat-count](#) value changes to
lldp [fast-count](#) VALUE
- "lldp notification" and "lldp-med notification-topo-change" changes to
lldp [med] notification enable"
- [lldp-med tlv-select](#) [inventory-management | capabilities] changes to
lldp [med-tlv-select](#) [capabilities | inventory-management]
- [lldp-dcbx tlv-select](#) [ets-configuration | ets-recommendation | pfc-configuration] changes to
lldp [dot1-tlv-select dcbx](#) [ets-configuration | ets-recommendation | pfc-configuration]
- lldp-dcbx run is removed as when LLDP is enabled, LLDP-DCBX will be enabled automatically in this version
- lldp notification-interval seconds

is removed; the notification interval will be 5 seconds by default.

- show lldp [statistics](#)
changes to
show lldp [traffic](#)
- show lldp [statistics](#) interface interface-id [, | -]
changes to
show lldp [traffic](#) interface INTERFACE-ID [, | -]
- show lldp local interface interface-id [, | -] {brief | [normal](#) | detail}
changes to
show lldp local interface INTERFACE-ID [, | -] [brief | detail]
- show lldp [remote](#) interface interface-id [, | -] {brief | [normal](#) | detail}
changes to
show lldp [neighbors](#) interface INTERFACE-ID [, | -] [brief | detail]
- The following original show commands for LLDP, LLDP-MED and LLDP-DCBX
 - show lldp-med
 - show lldp-med interface interface-id [, | -]
 - show lldp-med local interface interface-id [, | -]
 - show lldp-med remote interface interface-id [, | -]
 - show lldp-dcbx interface INTERFACE-ID
 - show lldp-dcbx local interface INTERFACE-ID
 - show lldp-dcbx remote interface INTERFACE-ID
 are combined into following commands
 - show lldp
 - show lldp interface INTERFACE-ID
 - show lldp local interface INTERFACE-ID
 - show lldp neighbors interface INTERFACE-ID

13. Syslog commands

- logging buffered [LEVEL] | [write-delay { SECONDS | INFINITE }]
changes to
logging buffered [[severity](#) {severity-level | severity-NAME} | [discriminator](#) NAME][write-delay {SECONDS | infinite }]
- logging console [LEVEL]
changes to
logging console [[severity](#) {severity-level | severity-NAME}] [[discriminator](#) NAME]
- logging [source interface](#) INTERFACE-ID
changes to
logging [source-interface](#) INTERFACE-ID
- logging [trap](#) LEVEL
is replaced by
logging [server](#)

- logging **facility** FACILITY-TYPE
is replaced by
logging **server**
- logging **on**
is replaced by
logging buffered [severity {severity-level | severity-NAME}]
[discriminator NAME][write-delay {SECONDS | infinite }]
- "logging count" and "show logging count" commands
are replaced by
show logging
- "save log" and "logging file flash"
are removed as the log will be automatically saved when rebooting the
switch

14. Debug commands

- error-reboot enable
changes to
debug reboot on-error
- clear error-log
changes to
debug clear error-log
- clear debug buffer
changes to
debug clear buffer
- Following commands
 - copy **error-log** tftp <IPADDR> <PATH_FILENAME >
 - copy **debug buffer** tftp <IPADDR> <PATH_FILENAME >
 - copy **tech-support** tftp <IPADDR> <PATH_FILENAME >change to
 - debug copy {buffer | error-log | tech-support} SOURCE-URL {tftp:
//LOCATION/DESTINATION-URL
|ftp: //USER-NAME:PASSWORD@LOCATION:TCP-PORT/
DESTINATION-URL|rcp://USER-NAME@LOCATION/DESTINATION-
URL } [vrf VRF-NAME]
- show error-log
changes to
debug show error-log
- **show debug** buffer [utilization]
changes to
debug show buffer [utilization]
- show tech-support
changes to
debug show tech-support
- show debug status

changes to
`debug` show output

- `show error-reboot`
is replaced by
`show running-config | include debug`

15. Device commands

- `show cpu`
changes to
`show cpu utilization`
- `show memory`
changes to
`show unit`
- `logging-server enable device`
is replaced by
`logging discriminator`
- `show device-status`
is replaced by
`show environment [fan | power | temperature]`
- `show system-info`
is replaced by following commands
 - `show unit`
 - `show version`
 - `show ip interface`

16. RMON commands

- `rmon event number [log] [trap community] [description description-string]`
changes to
`rmon event INDEX [log] [[trap COMMUNITY] [owner NAME] [description TEXT]`
- `show rmon event`
changes to
`show rmon events`

17. SNMP commands

- `no enable service snmp-agent`
is replaced by
`no snmp-server`
- `no snmp-server host {IP-ADDRESS [vrf NAME]}`
changes to
`no snmp-server host {IP-ADDRESS | IPV6-ADDRESS }`
- `snmp-server community COMMUNITY-STRING view VIEW-NAME {ro | rw}`
changes to
`snmp-server community [0| 7] COMMUNITY-STRING [view VIEW-NAME]`

[ro | rw] [IP-ACL-NAME]

18. CLI Basic commands

- show `bootup-config`
changes to

show `startup-config`

19. Configuration commands

- show `bootup-config`
changes to

show `startup-config`

- `execute` flash: *FILENAME*
is replaced by

`copy` flash: running-config

- `boot config` flash *FILENAME*

changes to

`boot config` *URL*

- `copy` running-config { `bootup-config` | flash: [*FILENAME*] | { tftp: [*//location/filename*] | ftp: [*//username:password@location:tcpport/filename*] } [vrf *VRFNAME*] }
changes to

`copy` running-config { `startup-config` | flash: [*FILENAME*] | { tftp: [*//location/filename*] | ftp: [*//username:password@location:tcpport/filename*] | rcp: [*//username@location/filename*] } [vrf *VRFNAME*] }

- `copy` `bootup-config` { running-config | flash: [*FILENAME*] | { tftp: [*//location/filename*] | ftp: [*//username:password@location:tcpport/filename*] } [vrf *VRFNAME*] }
changes to

`copy` `startup-config` { running-config | flash: [*FILENAME*] | { tftp: [*//location/filename*] | ftp: [*//username:password@location:tcpport/filename*] | rcp: [*//username@location/filename*] } [vrf *VRFNAME*] }

- `copy` { flash: [*FILENAME*] { `bootup-config` | running-config | { tftp: [*//location/filename*] | ftp: [*//username:password@location:tcpport/filename*] } [vrf *VRFNAME*] } | { tftp: [*//location/filename*] | ftp: [*//username:password@location:tcpport/filename*] } [vrf *VRFNAME*] }

{ `bootup-config` | running-config | flash: [*FILENAME*] } }

changes to

`copy` { flash: [*FILENAME*] { `startup-config` | running-config | { tftp: [*//location/filename*] | ftp: [*//username:password@location:tcpport/filename*] | rcp: [*//username@location/filename*] } [vrf *VRFNAME*] } | { tftp: [*//location/filename*] | ftp: [*//username:password@location:tcpport/filename*] | rcp:

[*//username:password@location:tcpport/filename*] | rcp:

[//username@location/filename] } [vrf VRFNAME] { startup-config | running-config | flash: [FILENAME] } }

- boot system flash FILENAME

changes to

boot image [check] URL

20. Password Recovery commands

- password-recovery

changes to

service password-recovery

- clear { levelpassword | username | configure }

changes to following commands

- password-recovery
- no username
- no enable password
- no login console
- show username
- show running-config

21. LACP commands

- aggregateport load-balance {dst-mac | src-mac | src-dst-mac | dst-ip | src-ip | src-dst-ip }

changes to

port-channel load-balance {dst-ip | dst-mac | src-dst-ip | src-dst-mac | src-ip | src-mac | dst-l4-port | src-dst-l4-port | src-l4-port }

- port-group <value 1-16> [static] and port-group mode {active | passive}

change to

channel-group <value 1-16> mode {on| active| passive}

- show aggregateport {[<value 1-16>] summary | load-balance} and show lacp summary

change to

show channel-group [channel [<value 1-16>] { detail | neighbor} | load-balance | sys-id]

22. Interface and IP commands

- interface out-band <int 1-1>

changes to

interface mgmt 0

- ip domain-lookup

changes to

ip domain lookup

- ip telnet server enable

changes to

ip telnet server

- arp timeout <min 0-65535> original command mode was Global

Configuration Mode and changes to Interface Configuration Mode in R2.0 software version

23. Mirror commands

- no monitor session *SESSION-NUMBER* destination interface *INTERFACE-ID* [acl *NAME*]
is separated to following commands
 - no monitor session *SESSION-NUMBER* destination interface *INTERFACE-ID*
 - no monitor session *SESSION-NUMBER* source acl *ACCESS-LIST-NAME*
- no monitor session all
is replaced by
no monitor session *SESSION-NUMBER*
- show monitor [session *SESSION-NUMBER*]
changes to
show monitor session [*SESSION-NUMBER* | remote | local]

24. File System commands

- ls directory
is replaced by
dir
- cp dest {destine_file | directory} sour source_file and
cp sour source_file dest {destine_file | directory}
are replaced by
copy
- rm filename and
del filename
are replaced by
delete FILE-URL
- makefs dev devname fs fsname and
makefs fs fsname dev devname
are replaced by
format FILE-SYSTEM [fat32 | fat16]
- pwd &
cd directory
are replaced by
cd [DIRECTORY-URL]

25. ACL commands

- the following commands
 - ip access-list standard {[id|name]}
 - ip access-list extended {[id | name]}
 - mac access-list extended {[id | name]}
 - expert access-list extended {[id | name]}
 - ipv6 access-list *name*

are changed to

- ip access-list [extended] NAME [NUMBER]
- mac access-list extended NAME [NUMBER]
- expert access-list extended NAME [NUMBER]
- ipv6 access-list [extended] NAME [NUMBER]

the *NAME* of ACL changes to necessary parameter not an optional one

- ip access-list resequence {id | name} start-sn inc-sn
changes to
access-list resequence { NAME | NUMBER } STARTING-SEQUENCE-NUMBER INCREMENT
- ipv6 traffic-filter name {in | out}
changes to
ipv6 access-group { NAME | NUMBER } [in|out]
- match ip address { acl_name | acl_id }+8
changes to
match ip address { ACL-NAME | ACL-NUMBER }
R2.0 only supports one entry in VLAN sub map
- match mac address { acl_name | acl_id }+8
changes to
match mac address { ACL-NAME | ACL-NUMBER }
R2.0 only supports one entry in VLAN sub map
- [sn] {permit | deny} {source-mac-address mask | host source-mac-address | any} {destination-mac-address mask | host destination-mac-address | any} [ethernet-type] [cos out [inner in]]
changes to
[SEQUENCE-NUMBER] { permit | deny } { any | host SRC-MAC-ADDR | SRC-MAC-ADDR SRC-MAC-WILDCARD } { any | host DST-MAC-ADDR | DST-MAC-ADDR DST-MAC-WILDCARD } [ethernet-type TYPE MASK] [cos VALUE [inner INNER-COS]] [vlan VLAN-ID [inner INNER-VLAN]] [time-range PROFILE-NAME]
- [sn] {permit | deny} protocol [vlan out [inner in]] {source source-wildcard | host source | any} {source-mac-address mask | host source-mac-address | any} {destination destination-wildcard | host destination | any} {destination-mac-address mask | host destination-mac-address | any} [precedence precedence] [tos tos] [fragments] [time-range time-range-name]
changes to
[SEQUENCE-NUMBER]{permit|deny} PROTOCOL { SRC-IP-ADDR SRC-IP-WILDCARD | host SRC-IP-ADDR | any } {SRC-MAC-ADDR SRC-MAC-WILDCARD | host SRC-MAC-ADDR | any} { DST-IP-ADDR DST-IP-WILDCARD | host DST-IP-ADDR | any} { DST-MAC-ADDR DST-MAC-WILDCARD | host DST-MAC-ADDR | any} [vlan OUTER-VLAN[inner INNER-VLAN]] [[precedence PRECEDENCE] [tos TOS] |dscp DSCP] [time-range PROFILE-NAME]

In R2.0, the “protocol” parameter changes to optional

- the following commands

- [sn] {permit | deny} tcp [vlan out [inner in]] {source source-wildcard | host source | any} {source-mac-address mask | host source-mac-address | any} [operator port] {destination destination-wildcard | host destination | any} {destination-mac-address mask | host destination-mac-address | any} [operator port] [precedence precedence] [tos tos] [fragments] [time-range time-range-name] [tcp-flag]
- [sn] {permit | deny} udp [vlan out [inner in]] {source source-wildcard | host source | any} {source-mac-address mask | host source-mac-address | any} [operator port] {destination destination-wildcard | host destination | any} {destination-mac-address mask | host destination-mac-address | any} [operator port] [precedence precedence] [tos tos] [fragments] [time-range time-range-name]
- [sn] {permit | deny} icmp [vlan out [inner in]] {source source-wildcard | host source | any} {source-mac-address mask | host source-mac-address | any} {destination destination-wildcard | host destination | any} {destination-mac-address mask | host destination-mac-address | any} [icmp-type] [[icmp-type [icmp-code]] | [icmp-message]] [precedence precedence] [tos tos] [fragments] [time-range time-range-name]

are changed to

- [SEQUENCE-NUMBER] {permit|deny} tcp { SRC-IP-ADDR SRC-IP-WILDCARD | host SRC-IP-ADDR | any} {SRC-MAC-ADDR SRC-MAC-WILDCARD | host SRC-MAC-ADDR | any} [{eq | lt | gt | neq} PORT | range MIN-PORT MAX-PORT] { DST-IP-ADDR DST-IP-WILDCARD | host DST-IP-ADDR | any} { DST-MAC-ADDR DST-MAC-WILDCARD | host DST-MAC-ADDR | any} [{eq | lt | gt | neq} PORT | range MIN-PORT MAX-PORT] [vlan OUTER-VLAN[inner INNER-VLAN]] [[precedence PRECEDENCE] [tos TOS] | dscp DSCP] [time-range PROFILE-NAME]
- [SEQUENCE-NUMBER] {permit|deny} udp { SRC-IP-ADDR SRC-IP-WILDCARD | host SRC-IP-ADDR | any} { SRC-MAC-ADDR SRC-MAC-WILDCARD | host SRC-MAC-ADDR | any} [{eq | lt | gt | neq} PORT | range MIN-PORT MAX-PORT] { DST-IP-ADDR DST-IP-WILDCARD | host DST-IP-ADDR | any} { DST-MAC-ADDR DST-MAC-WILDCARD | host DST-MAC-ADDR | any} [{eq | lt | gt | neq} PORT | range MIN-PORT MAX-PORT] [vlan OUTER-VLAN[inner INNER-VLAN]] [[precedence PRECEDENCE] [tos TOS] |dscp DSCP] [time-range PROFILE-NAME]
- [SEQUENCE-NUMBER] {permit|deny} icmp{ SRC-IP-ADDR SRC-IP-WILDCARD | host SRC-IP-ADDR | any} {SRC-MAC-ADDR SRC-MAC-

[WILDCARD](#) | host SRC-MAC-ADDR | any} { DST-IP-ADDR DST-IP-
 WILDCARD | host DST-IP-ADDR | any} { DST-MAC-ADDR [DST-MAC-
 WILDCARD](#) | host DST-MAC-ADDR | any} [ICMP-TYPE [ICMP-CODE]
 | ICMP-MESSAGE] [vlan OUTER-VLAN[inner INNER-VLAN]]
 [[precedence PRECEDENCE] [tos TOS] | [dscp DSCP](#)] [time-range
 PROFILE-NAME]

The R2.0 version removes the support for configuring "fragment" parameter for TCP/ UDP/ ICMP command. If users need to configure the "fragment" parameter, they need to use "Protocol" ACL to accomplish it.

26. QoS commands

- match {access-group ACCESS-LIST-NAME | [ACCESS-LIST-ID](#)}
changes to
match {access-group [name](#) ACCESS-LIST-NAME}

R2.0 does not support ACL index and add a keyword name for this command. If all configuration file are saved and then upgrade to R2.0, switch will convert the command to new format automatically

- mls qos map dscp-cos DSCP-LIST to COS-VALUE in [Global Configuration](#) mode changes to [Interface Configuration](#) mode
- police [sr-tcm BPS](#) [[bc](#) BURST-NORMAL] [[be](#) BURST-MAX] conform-action ACTION exceed-action ACTION [violate-action ACTION] and police [rate](#) BPS BURST [exceed-action ACTION] change to
police [KBPS](#) [BURST-NORMAL] [BURST-MAX] [conform-action ACTION] exceed-action ACTION [violate-action ACTION]
- police [tr-tcm](#) cir CIR [bc CONFORM-BURST] pir PIR [be PEAK-BURST] [conform-action ACTION [exceed-action ACTION [violate-action ACTION]]]
changes to
police cir CIR [bc CONFORM-BURST] pir PIR [be PEAK-BURST] [conform-action ACTION] [exceed-action ACTION [violate-action ACTION]]
- queue QUEUE-ID [bandwidth](#) MIN-BANDWIDTH-KBPS and MAX-BANDWIDTH-KBPS
change to
queue QUEUE-ID [rate-limit](#) MIN-BANDWIDTH-KBPS MAX-BANDWIDTH-KBPS
- hol_prevention is removed as this function will always be enabled in R2.0
- the following commands
 - show mls qos interface [INTERFACE-ID]
 - show mls qos rate-limit [interface INTERFACE-ID [,|-]]
 - show mls qos scheduler [interface INTERFACE-ID [,|-]]
 - show mls qos maps dscp-cos
 are combined to
 - show mls qos interface [INTERFACE-ID [,|-]] { cos | scheduler | trust

| rate-limit | queue-rate-limit | dscp-mutation | map {dscp-color | cos-color | dscp-cos} }

- the following commands
 - show mls qos interface [INTERFACE-ID] [policers]
 - show policy-map [POLICY-NAME [CLASS-MAP-NAME]]
 are combined to
 - show policy-map [POLICY-NAME | interface INTERFACE-ID]

R2.0 does not support CLASS-MAP-NAME optional parameter

- show interface [INTERFACE-ID [, | -]] priority-flow-control changes to show interfaces [INTERFACE-ID [, | -]] priority-flow-control
- qcn cnpv CNPV-PRIORITY-VALUE [cp-creation { enable | disable }] changes to qcn cnpv CNPV-PRIORITY-VALUE [cp-creation { auto-enable | auto-disable }]

27. OSPFv2 commands

- area <area_id> is removed as the area id can be created by other command
- route-preference ospf {intra-area <value> | inter-area <value> | external-1 <value> | external-2 <value>} changes to distance ospf { inter-area | intra-area | external-1 | external-2 } <value>
- ip ospf authentication [{message-digest | null}] changes to ip ospf authentication [message-digest]

28. BGP commands

- route-preference {ibgp|ebgp} value changes to distance bgp EXTERNAL-DISTANCE INTERNAL-DISTANCE

29. VRRP commands

- vrrp vrid critical-ip ip-address changes to vrrp VRID track critical-ip IP-ADDRESS

30. RIP commands

- route-preference <value> changes to distance <DISTANCE>
- ip rip receive enable and ip rip send enable change to passive-interface {default | INTERFACR-ID}

31. Protocol Independent commands

- clear ip route and show ip ecmp load-balance

are changed to RD level commands

- the following commands

- `route-preference [vrf vrf-name]` default value

- `route-preference [vrf vrf-name]` static value

are changed to

- `distance [vrf VRF-NAME] {static | default} DISTANCE`

- `ip ecmp load-balance [{sip | crc32_lower | crc32_upper} | dip | port](1)` changes to

`ip route ecmp load-balance [{sip| crc32_lower| crc32_upper} | dip | port]`

- `show ip route-preference` is replaced by `show running-config`

- `show ip route [vrf vrf-name] [network [net-mask]] [{count | connected | static | rip | ospf | bgp | weight}]`

changes to

`show ip route [vrf VRF-NAME] [[ip-address [mask] | protocol] | hardware]`

`show ip route summary [vrf VRF-NAME]`

32. VLAN commands

- `mac-base MAC-ADDRESS [priority COS-VALUE]` in [VLAN Configuration Mode](#)

changes to

`mac-vlan MAC-ADDRESS vlan VLAN-ID [priority COS-VALUE]` in [Global Configuration Mode](#)

- `subnet-base { NETWORK-PREFIX /PREFIX-LENGTH | IPV6- NETWORK-PREFIX /PREFIX-LENGTH } [priority COS-VALUE]` in [VLAN Configuration Mode](#)

changes to

`subnet-vlan { ipv4 NETWORK-PREFIX NETWORK-MASK | ipv6 IPV6-NETWORK-PREFIX / PREFIX-LENGTH } vlan VLAN-ID [priority COS-VALUE]` in [Global Configuration Mode](#)

- `switchport native vlan VLAN-ID`

changes to

`switchport hybrid native vlan VLAN-ID` and

`switchport trunk native vlan { VLAN-ID | tag }`

33. GVRP commands

- `gvrp`

changes to

`gvrp global` in [Global Configuration Mode](#) and

`gvrp enable` in [Interface Configuration Mode](#)

- `forbidden vlan VLAN-ID [,|-]`

changes to

`gvrp forbidden {all | VLAN-ID [, | -] | {add | remove } VLAN-ID [, | -] }`

34. MPLS commands

- `backoff maximum SECONDS`

- changes to
backoff `INIT-TIME MAX-TIME`
- `mpls ldp hello-holdtime SECONDS` and
`mpls ldp hello- interval SECONDS`
change to
`discovery hello { holdtime SECONDS | interval SECONDS }`
- `mpls ldp targeted-hello-accept`
changes to
`discovery targeted-hello accept`
- `targeted-hello { holdtime <seconds 15-65535> | interval <seconds 5-65535> }`
changes to
`discovery targeted-hello { holdtime SECONDS | interval SECONDS }`
- `ldp router-id IP-ADDRESS`
changes to
`router-id IP-ADDRESS`
- `transport-address {interface | IP-ADDRESS }`
changes to
`discovery transport-address {interface | IP-ADDRESS }`
- `mpls ldp distribution-mode {dod | du}`
changes to
`distribution-mode {dod | du}`
- `mpls ldp lsp-control-mode {independent | ordered}`
changes to
`lsp-control-mode {independent | ordered}`
- `mpls ldp max-path-vector VALUE`
changes to
`path-vector maxlength VALUE`
- `max-hop-count VALUE`
changes to
`maxhops VALUE`
- `mpls ldp targeted-peer IP-ADDRESS`
changes to
`neighbor IP-ADDRESS targeted`
- `mpls static l2vc-ftn VC-ID IP-ADDRESS out-label LABEL-VALUE`
changes to
`xconnect IP-ADDRESS VC-ID encapsulation mpls [manual] [raw| tagged] [mtu 0-65535]`
- `mpls static ilm in-label LABEL-VALUE forward-action pop-l2vc-destport INTERFACE-ID fec VC-ID IP-ADDRESS`
changes to
`mpls label LOCAL-LABEL REMOTE-LABEL`
- `class-map {inbound exp <VALUELIST 0-7> priority <VALUE 0-7> |`

`outbound [priority <VALUELIST 0-7>] exp < VALUE 0-7>}`

changes to

following commands

- class map `exp-cos EXP-LIST to COS-VALUE`
- class map `cos-exp COS-LIST to EXP-VALUE`

- `trust-exp`

changes to

`trust exp`

- `match {ip NETWORK-PREFIX/PREFIX-LENGTH }`

changes to

`match {ip NETWORK-PREFIX/PREFIX-LENGTH | vc IP-ADDRESS VC-ID }`

- `ping lsp NETWORK-PREFIX/PREFIX-LENGTH [times VALUE | timeout SECONDS]`

changes to

`ping mpls ipv4 NETWORK-PREFIX/PREFIX-LENGTH [repeat COUNT | timeout SECONDS]`

- `traceroute lsp NETWORK-PREFIX/PREFIX-LENGTH [timeout SECONDS]`

changes to

`traceroute mpls ipv4 NETWORK-PREFIX/PREFIX-LENGTH [timeout SECONDS]`

35. Port commands

- `interface {tenGigabitEthernet PORT | gigabitEthernet PORT | fortygigabitEthernet PORT}`

changes to

`interface ethernet PORT`

- `interface range {tenGigabitEthernet PORTLIST | gigabitEthernet PORTLIST | fortygigabitEthernet PORTLIST }`

changes to

`interface range ethernet PORTLIST`

- `medium-type {copper | fiber}`

changes to

`media-type {auto-select | rj45 | sfp}`

- `flowcontrol {auto | off | on}`

changes to

`flowcontrol {off | on}`

- `mtu`

changes to

`max-rcv-frame-size`

36. Switch Controller commands

- `enable asf`

changes to

`packet-forwarding asf`

- `show asf`

is replaced by

show running-configure, for example *show running-config all | begin ASF*

37. VPWS commands

- xconnect *VC-ID IP-ADDRESS* encapsulation mpls [{raw | tagged}] [mtu 0-65535]
changes to
xconnect *IP-ADDRESS VC-ID* encapsulation mpls [manual] [raw| tagged] [mtu 0-65535]
- xconnect backup *VC-ID IP-ADDRESS* in "Interface Configuration Mode"
changes to
backup peer *IP-ADDRESS VC-ID* [delay {DISABLE-DELAY | never}] in "Xconnect Configuration Mode"
- encapsulation dot1q <vlanid 1-4094>
changes to
service encapsulation svid VLAN-ID
- The following commands
 - mpls static l2vc-ftn *VC-ID IP-ADDRESS* out-label LABEL-VALUE
 - mpls static ilm in-label LABEL-VALUE forward-action pop-l2vc-destport INTERFACE-ID fec *VC-ID IP-ADDRESS*
 changes to
 - **mpls label LOCAL-LABEL REMOTE-LABEL** in Xconnect Configuration Mode

38. VPLS commands

- vpls *VPLS-NAME*
changes to
l2 vfi VPLS-NAME manual
- vpls-id *VPLS-ID*
changes to
vpn id VPN-ID
- service-type {raw | tagged}
changes to
pw-type {raw | tagged}
- peer *IP-ADDRESS [VC-ID] [{network | spoke}]*
changes to
neighbor remote IP-ADDRESS [VCID] encapsulation mpls [no-split-horizon]
- peer backup *IP-ADDRESS [VC-ID]*
changes to
neighbor remote IP-ADDRESS [VCID] backup [delay {DISABLE-DELAY | never}]
- xconnect vpls *VPLS-NAME*
changes to
xconnect **vfi VPLS-NAME**

- clear mac-address-table vpls dynamic [*VPLS-NAME* [{peer *IP-ADDRESS* [*VC-ID*] | ac interface *INTERFACE-ID* [vlan *VLAN-ID*] | address *MAC-ADDR*}]]

changes to

clear mac-address-table vpls dynamic { all | *VPLS-NAME* [peer *IP-ADDRESS* [*VC-ID*] | ac *INTERFACE-ID* [vlan *VLAN-ID*] | address *MAC-ADDR*] }

39. Q-in-Q commands

- frame-tag *tpid* <hex 0x1-0xffff>

changes to

dot1q tunneling *ethertype* <hex 0x1-0xffff>

- show frame-tag *tpid* [interface *INTERFACE-ID*]

changes to

show dot1q *ethertype* [interface *INTERFACE-ID*]

- inner-priority-trust

changes to

dot1q-tunnel trust inner-priority

- insert-dot1q-tag <vlanid 1-4094>

changes to

dot1q-tunnel insert dot1q-tag <vlanid 1-4094>

- show switchport vlan mapping profile [interface *INTERFACE-ID*]

is replaced by

show dot1q-tunnel

40. MSTP commands

- the following commands

- spanning-tree portfast [disabled]
- spanning-tree autoedge [disabled]

are combined into

- spanning-tree portfast {disable | edge| network }

- spanning-tree tc-guard

changes to

spanning-tree tcnfilter

- spanning-tree external-cost COST

changes to

spanning-tree cost COST

- spanning-tree max-hops MAX-COUNT

changes to

spanning-tree mst max-hops HOP-COUNT

- spanning-tree hello-time SECONDS

changes to

spanning-tree mst hello-time SECONDS

- the following commands

- show spanning-tree [summary | forward-time | hello-time | max-

	<p>age tx-hold-count max-hops]</p> <ul style="list-style-type: none"> - show spanning-tree interface INTERFACE-ID [{ portfast link-type }] - show spanning-tree mst { configuration instance INTANCE-ID [interface INTERFACE-ID] } <p>change to</p> <ul style="list-style-type: none"> - show spanning-tree [interface [INTERFACE-ID [, -]] - show spanning-tree configuration interface [INTERFACE-ID [, -]] - show spanning-tree mst [configuration [digest]] - show spanning-tree mst [instance INSTANCE-ID [, -]] [interface INTERFACE-ID [, -]] [detail] <p>41. IGMP Snooping commands</p> <ul style="list-style-type: none"> ● ip igmp snooping mrouter {interface INTERFACE-ID [, -] forbidden interface INTERFACE-ID [, -]} <p>changes to</p> <p>ip igmp snooping static-group GROUP-ADDRESS interface INTERFACE-ID [, -]</p> <p>42. PIM commands</p> <ul style="list-style-type: none"> ● ip pim old-register-checksum rp-address IP-ADDRESS <p>changes to</p> <p>ip pim register-checksum-wholepkt rp-address-list ACCESS-LIST-NAME</p> <ul style="list-style-type: none"> ● ip pim join-prune-interval SECONDS <p>changes to</p> <p>ip pim jp-timer SECONDS</p>
V1.10.023	None
V1.00.024	First release

Problem Fixed

Firmware Version	Problems
V2.40.046	<ol style="list-style-type: none"> 1. Fix the backward compatible issue that if user configured IP interface with 10.x.x.x/8, the IP interface will be lost after upgrading the firmware. (DRU20130805000005, DRU20130918000004) 2. Fix the issue that user can access the switch via the console without authentication even if local authentication was enabled. (DRU20130415000001) 3. Fix the issue that DXS-3600 will filter DHCP Renew unicast packet when DHCP service was enabled. (DEUR20130415000008) 4. Fix the issue that the modification of port speed cannot be saved if user didn't configure the "duplex" parameter at the same time.

- ([DUSA20130530000004](#))
5. Fix the issue that the switch will change to exception mode due to improper coding for Path MTU time out timer configuration.
([DRU20130613000002](#))
 6. Fix the issue that user cannot disable HTTP and HTTPS at the same time.
([DRU20131024000005](#))
 7. Fix the issue that DXS-3600 did not forward OSPFv3 packet when OSPFv3 was enabled. ([DI20131107000007](#))
 8. Fix the issue that when user connected the expansion module DXS-3600-EM-4XT with DXS-3600, the ports on that expansion module will not link up in auto negotiation mode. ([DRU20140131000004](#))
 9. Fix the issue that the RX oversize statistics number was incorrect.
([DRU20140226000003](#))
 10. Fix the issue that when enabling IGMP Snooping in Q-in-Q, DXS-3600 will drop the IGMP packet whose packet size was less than 64 bytes.
([DEUR20140331000011](#))
 11. Fix the issue that the switch will not reply the IPv6 ping to a loopback interface. ([DI20140408000004](#))
 12. Fix the issue that when user configured IPv6 address on Loopback Interface and saved the configuration file. The IPv6 configuration will lost after rebooted the switch. ([DI20140408000002](#))
 13. Fix the issue that when user enabled ECMP on switch, the routing table may incorrect after running a period of time. ([DI20140424000006](#))
 14. Fix the issue that there was no response from many nodes when running Traceroute on the switch. ([DRU20140421000006](#))
 15. Fix the issue that in stacking architecture, the master switch did not synchronize the host key to slave switch when the SSH generating the RSA/DSA host key. ([DI20140520000007](#))
 16. Fix the issue that in stacking architecture, the member switches will change to pause mode when user turned off and then turned on the power of the master switch. ([DI20140520000009](#))
 17. Fix the issue that DXS-3600 will send duplicated TFTP control packets.
([DI20140606000005](#))
 18. Fix the issue that switch will not send or respond Neighbor Solicitation (NS) message after turning off the power of physical stacking's Master switch. ([DI20140602000003](#))
 19. Fix the issue that when user upgraded the firmware by TFTP, both the

	<p>Management and VLAN Interface will send TFTP request to TFTP server at the same time. (DI20140630000005, DI20120525000002, DI20121120000002)</p> <ol style="list-style-type: none"> 20. Fix the issue that when user configured MLD Snooping with "filter-unregistered" parameter, DXS-3600 will not flood IPv6 Link-Local Multicast Name Resolution (LLMNR) or Simple Service Discovery Protocol (SSDP) packets. (DI20110914000006, DI20140411000006, DI20140630000004) 21. Fix the issue that the switch will not forward DHCP packets which were relayed by other switches. (DI20140708000005) 22. Fix the issue that the LSP sessions will be flapping after client being authenticated by TACACS+ server. (DRU20140815000004) 23. Fix the issue that the "class-map" configuration does not work correctly. (DRU20140814000001) 24. Fix the issue that when switch's port linked up and down, the L3 VPN service will fail to forward data. (DRU20141126000001) 25. Fix the issue that DXS-3600 will return an error message when user tried to enable the optical transceiver monitoring function with "transceiver-monitoring enable" CLI command. (DRU20141215000004) 26. Fix the issue that when user issued MPLS ping to Juniper switch, the ping will fail. (DRU20150203000005) 27. Fix the issue that when enabling LACP with Mirroring, the channel group load balancing algorithm did not work. (DRU20150225000003) 28. Fix the issue that the mirror configuration will loss after user upgraded the firmware. (DRU20150225000003) 29. Fix the issue that the system will prompt an error message when trying to delete an IP address. (DRU20150303000002) 30. Fix the issue that the switch might change to Pause mode when handling LSP packets. (DRU20150304000001)
<p>V2.00.023</p>	<ol style="list-style-type: none"> 1. Fix the issue that when PC pings DXS-3600's IPv6 prefix address, not the switch's address, the switch still replies OK instead of ignoring it. (DUSA20130309000002) 2. Fix the issue that the configuration file cannot be transmitted completely via FTP server (DI20130108000006, DI20130313000001) 3. Fix the issue that when user enables VRRP and DHCP Relay on DXS-3600, if DHCP client sends a DHCP request to DHCP server, the server will receive duplicated DHCP request packets. (DI20130304000009,

	<p>DI20130307000006, DI20130307000011, DI20130307000014, DI20130308000010, DI20130308000011)</p> <ol style="list-style-type: none"> Fix the issue that when customer enables both Q-in-Q VLAN Translation and DHCP Relay service, DXS-3600 will not replace the VLAN ID. (HQ20130327000020) Fix the issue that when enables AAA local authentication for console port; user does not need to enter the user name and password when trying to access the switch via console port. (DRU20130415000001) Fix the issue that clients cannot get IP address when sending DHCP renew packet to DHCP server, the root cause is that DXS-3600 will filter the unicast DHCP renew packet when DHCP service is enabled. (DEUR20130415000008) Fix the issue that the modified port speed cannot be saved to configuration file if there's no "duplex" parameter followed the port speed modification command. (DUSA20130530000004)
V1.10.023	<ol style="list-style-type: none"> Fix the issue that when enabling Q-in-Q function, IGMP Snooping will not work. (DRU20120322000008) Fix the issue that when configuring TACACS key string via CLI, the key will be incorrect bug. (DRU20120329000002) Fix the issue that when executing command "show running-config", the display speed of pressing space bar for "next page" will be faster than the speed with "all" parameter in the command. (DEUR20120627000006) Fix the issue that when customer tries to connect to the switch via ssh protocol and needs to transmit lots of data by SSH server, such as executing "show log" or "show tech_support", the server will fail to transmit data to client and the client will also display "Incorrect MAC received on packet" error message. (DRU20120622000001)
V1.00.024	First release

* D-Link tracking number is enclosed in ()

Known Issues

Firmware Version	Issues	Workaround
V2.40.046	None	
V2.00.023	1. When executing "show environment" command, the display of "Detail Power Status" will show	It's a display bug and will not affect the

	<p>"Internal Power" and "External Power" instead of "Power 1" and "Power 2".</p>	<p>whole function. This issue will be fixed in next release.</p>
	<p>2. Some of the CLI commands' format is different between R1.10 and R2.00. Users cannot execute the R1.10 original command in R2.00 version.</p>	<p>In order to prevent the previous configuration file missed after upgrading the firmware version to R2.00. Users can save the configuration files first before processing the upgrade.</p>
	<p>3. CVE-ID: CVE-2013-0149 Due to the ambiguous definition in OSPF protocol as specified in RFC2328, the attacker can send a false Link State Advertisement (LSA) which will evade the fight-back mechanism so that the LSA may be accepted and propagated by a "genuine" router on the network.</p>	<ol style="list-style-type: none"> 1. Enable MD5 authentication for OSPF 2. Enable OSPF Passive Interface to stop sending or receiving routing table update on interfaces that do not participate in OSPF 3. Enable MAC-based Access Control (MAC) to authenticate devices before they are able to communicate with the network
V1.10.023	None	
V1.00.024	None	

Related Documentation

- DXS-3600 Series Web UI Reference Guide Release 2.40
- DXS-3600 Series CLI Reference Guide Release 2.40
- DXS-3600 Series HW Installation Guide Release 2.40